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ATTORNEY'S DOCKET NO.
062891.0433

PATENT APPLICATION

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APPLICATION FOR U.S. PATENT UNDER 37 C.F.R. § 1.53(b)
TRANSMITTAL FORM

jca15 U.S. PTO
09/658873
09/08/00

Box Patent Application
ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the utility patent application of:

Inventors or Application Identifier: **John Elmore Schier**

Entitled: **METHOD, DEVICE, AND NETWORK FOR PROVIDING SECURE COMMUNICATION ENVIRONMENTS**

Enclosed are:

1. ☒ Fee Transmittal Form
2. ☒ Specification, Claims and Abstract (33 Total Pages)
3. ☒ Drawings (2 Total Sheet(s) of X Formal Informal)
4. ☒ Signed Combined Declaration and Power of Attorney (4 Total Pages)
 - ☐ New executed (faxed original)
 - ☐ Copy from a prior application (for continuation/divisional only)
5. ☐ Priority of foreign Application No. _____, filed on _____ is claimed under 35 U.S.C. § 119.
 - ☐ A certified copy is attached.
 - ☐ A certified copy was filed in prior Application Serial No. _____, filed _____.
6. ☒ An Assignment of the invention to Cisco Technology, Inc. is attached. A separate cover sheet in compliance with 37 C.F.R. § 3.28 and § 3.31 is included with an Assignment recordal fee of \$40.00 pursuant to 37 C.F.R. § 1.21(h).

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PATENT APPLICATION

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[] The prior application is assigned of record to Cisco Technology, Inc., a California Corporation, in the U.S. Patent and Trademark Office records, and was filed on _____.

7. [] Information Disclosure Statement (IDS) PTO-1449
[] Copies of IDS Citations.
[] Pursuant to 37 C.F.R. § 1.98(d), copies of these references are not being furnished.

8. [] Preliminary Amendment

9. [X] Certificate of Mailing

10. [X] Return Receipt Postcard

11. [] Other: _____

12. Applicant is:

[X] Large Entity

[] Small Entity

[] Small Entity Statement enclosed

[] Small Entity Statement filed in prior application.

Status still proper and desired.

13. The accompanying application is:

[X] Original

[] Continuation

[] Divisional

[] Continuation-In-Part (CIP)

of prior application No. _____ which was filed on _____.

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PATENT APPLICATION

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CLAIMS AS FILED IN THE APPLICATION, LESS ANY CLAIMS CANCELED
BY PRELIMINARY AMENDMENT OR ADDED BY PRELIMINARY AMENDMENT

FEE CALCULATION					FEE
	Number		Number Extra	Rate	Basic Fee
					\$ 690.00
Total Claims:	41	- 20 =	21	X \$18 =	\$ 378.00
Independent Claims	6	- 3 =	3	X \$78 =	\$ 234.00
TOTAL FILING FEE =					\$1302.00

14. [X] Enclosed is a check in the amount of \$1302.00 to satisfy filing fee requirements under 37 C.F.R. § 1.16. Please charge any additional fees or credit any overpayment to Deposit Account No. 02-0384 of BAKER BOTTS L.L.P.

Respectfully submitted,
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METHOD, DEVICE, AND NETWORK FOR PROVIDING SECURE
COMMUNICATION ENVIRONMENTS

CROSS REFERENCE TO RELATED APPLICATION

This application is related to copending Application
Serial No. 09/_____ filed September 8, 2000 entitled
Method, Device, and Network for Providing Selectable
5 *Secure Communication Environments*, by John Elmore Schier,
now issued as U.S. Patent No. _____.

TECHNICAL FIELD

The present invention generally relates to
10 communicating information, and more particularly, to a
method, device, and network for providing secure
communication environments.

BACKGROUND

Secure environments for communicating information is an ongoing concern in the field of communications.

Historically, government agencies have used many
5 different types of data encryption to obviate interception of communicated information between parties. Commercially, several techniques have been deployed to reduce or eliminate communications from being intercepted. For example, some conventional wireless
10 telephone systems deploy spread spectrum as a form of wireless communication in which the frequency of the transmitted signal is deliberately varied resulting in greater bandwidth than the signal would have if its frequency were not varied. For example, a conventional
15 wireless signal has a frequency, usually specified in megahertz (MHz) or gigahertz (GHz), that does not change with time (except for small, rapid fluctuations that occur as a result of modulation). The signal will stay at approximately 103.1 MHz and may vary up to 105.1 MHz or
20 down to 99.1 MHz. Some conventional wireless telephones maintain the signal constant so the bandwidth can be kept within certain limits and the signal can be easily located by someone who wants to retrieve the information.

Given that a constant frequency signal is relatively
25 easy to intercept, it is therefore not well suited to applications in which information must be kept confidential between the source (transmitting party) and destination (receiving party).

To minimize troubles that can arise from the above
30 mentioned vulnerabilities of conventional communications circuits, the frequency of the transmitted signal can be

deliberately varied over a comparatively large segment of the electromagnetic radiation spectrum. This variation is done according to a specific, but complicated mathematical function. In order to intercept the signal, a receiver must be tuned to frequencies that vary precisely according to this function. The receiver must "know" the frequency-versus-time function employed by the transmitter, and must also "know" the starting-time point at which the function begins. If someone wants to jam or intercept a spread-spectrum signal, that person must have a transmitter that "knows" the function and its starting-time point. The spread-spectrum function must be kept out of the hands of unauthorized people or entities to protect security of the associated communication.

Most spread-spectrum signals use a digital scheme called frequency hopping. The transmitter frequency changes abruptly, many times each second. Between "hops," the transmitter frequency is stable. The length of time that the transmitter remains on a given frequency between "hops" is known as the dwell time. A few spread-spectrum circuits employ continuous frequency variation, which is an analog scheme.

SUMMARY OF THE INVENTION

In accordance with teachings of the present invention, a system and method are described for providing secure communication of information via a network environment.

According to one aspect of the present invention, a communication network operable to provide a secure communication environment is provided. The communication network includes a communication device operable to request the secure communication environment and a communication server operable to be coupled to the initiating device. The communication server is further operable to enable the secure communication environment.

According to another aspect of the present invention, a method for providing a secure communication environment. The method includes determining availability of the secure communication environment in response to a request by a communication device and providing a reference to the communication device operable to be used in association with enabling the secure communication environment.

According to another aspect of the present invention, a communication device operable to communicate via a communication network is disclosed. The communication device includes a user interface operable to initiate communication with a communication server coupled to the communication network and a processor operable to process information based upon an algorithm identified by the communication server.

According to a further aspect of the present invention, a method for providing a secure communication

environment using a communication device is disclosed.
The method includes initiating communication with a
communication server to request a secure communication
environment and processing information based upon an
algorithm identified by the communication server to
provide the secure communication environment.

According to another aspect of the present
invention, a system for providing a secure communication
environment using a communication device is disclosed.
The system includes initiating communication with a
communication server and processing information by the
initiating device based upon an algorithm identified by
the communication server.

According to another aspect of the present
invention, a communication network operable to provide a
secure communication environment is disclosed. The
network includes an initiating device operable to request
the secure communication environment and a destination
device operable to communicate information via the secure
communication environment. The network further includes
a communication server operable to be coupled to the
initiating device to determine if the initiating device
and the destination device are operable to communicate
via the secure communication environment.

It is a technical advantage of the present invention
to provide an enhanced data and voice services for
communication devices.

It is technical advantage of the present invention
to provide a user selectable communication environment
for communication devices.

It is further technical advantage of the present invention to provide an optional service for providing secure communication environments which may be activated on a per-call basis.

5 It is a technical advantage of the present invention
to provide a communication device operable to communicate
via secure and non-secure communication environments.

It is another technical advantage of the present invention to provide a destination device operable to communicate information via a selectable secure communication environment.

It is another technical advantage of the present invention to provide an on-demand system operable to provide a secure communication service for several subscribers.

BRIEF DESCRIPTION OF THE DRAWINGS

A more complete understanding of the present
embodiments and advantages thereof may be acquired by
referring to the following description taken in
5 conjunction with the accompanying drawings, in which like
reference numbers indicate like features, and wherein:

FIGURE 1 illustrates one embodiment of a
communication network operable to deploy a secure
communication environment according to teachings of the
10 present invention;

FIGURE 2 illustrates one embodiment of a method for
providing a secure communication environment using
networked devices according to teachings of the present
invention;

15 FIGURE 3 illustrates one embodiment of a
communication device operable to securely communicate
information according to the teachings of present
invention;

FIGURE 4 illustrates one embodiment of a method for
20 communicating information using a communication device
and a secure communication environment according to the
teachings of present invention; and

FIGURE 5 illustrates another embodiment of a
communication network operable to deploy a secure
25 communication environment according to teachings of the
present invention.

DETAILED DESCRIPTION

Preferred embodiments and their advantages are best understood by reference to FIGURES 1 through 5, wherein like numbers are used to indicate like and corresponding parts.

The conceptual groundwork for the present invention involves securely communicating information via a network. A secure communication environment may be selectively enabled by a user accessing a network using a communication device. The user may initiate a secure communication environment and communicate information to a destination device operable to receive information communicated via the secure communication environment.

In a particularized form, an initiating device, such as a telephone or wireless communication device, may be used to establish communication with a destination device. The destination device may be coupled to the initiating device via a network operably coupled to a communication server. A user may selectively enable a secure communication environment by selecting a key or a series of keys operably coupled to the initiating device. As such, the communication server may determine availability of a secure communication environment and initiate providing the secure communication environment. In one embodiment, the server may determine a type of encryption to be used in association with the initiating device and the destination device. As such, the communication server may provide an instruction to the initiating device and/or the destination device identifying an algorithm to be used for encrypting and/or decrypting information.

FIGURE 1 illustrates one embodiment of a communication network operable to deploy a secure communication environment according to teachings of the present invention. A communication network, illustrated generally at 100, includes an initiating device 101 operably coupled to a destination device 102 via a first network 104. Initiating device 101 may also be coupled to communication server 103 via second network 105. Communication server 103 may also be coupled to destination device 102 via third network 106.

During use, communication network 100 may be operable to provide secure communication of information between initiating device 101 and destination device 102. For example, a user may request a secure environment using initiating device 101. Communication server 103 may receive a request from initiating device 101 and determine if a secure communication environment may be provided between initiating device 101 and destination device 102. For example, communication server 103 may determine if an algorithm may be used by both initiating device 101 and destination device 102. As such, communication server 103 may provide an instruction to initiating device 101 and destination device 102 identifying which algorithm to use to provide a secure communication environment.

In one embodiment of the present invention, communication server 103 may determine that a partially secure environment may be provided. For example, destination device 102 may not be operable to deploy an algorithm similar to an algorithm which may be used by initiating device 101. As such, communication server 103

may remain communicably coupled between initiating device 101 and destination device 102 and may be operable to deploy an algorithm similar to the algorithm deployed by initiating device 101. Communication server 103 may then
5 provide a partially secure communication environment with secure communication between initiating device 101 and communication server 103 and generally non-secure communication between communication server 103 and destination device 102.

10 In another embodiment, initiating device 101 and/or destination device 102 may be operable receive an algorithm communicated by communication server 103. For example, communication server 103 may download a common algorithm to initiating device 101 and destination device
15 102 which may be used to encrypt and/or decrypt information. As such, communication server 103 may provide various algorithms thereby providing a secure communication environment which may be periodically altered between initiating device 101 and destination
20 device 102.

FIGURE 2 illustrates one embodiment of a method for providing a secure communication environment using networked devices according to teachings of the present invention. The method may be deployed in association
25 with the network illustrated in FIGURE 1 or other networks or systems operable to deploy the method of FIGURE 2.

The method begins generally step 200. At step 201 initiation of a secure communication environment is
30 requested. Initiation may include a user selecting a series of keys associated with a communication device.

server thereby providing several secure communication environments.

Upon the server determining a secure communication environment, the method proceeds to step 203 where the communication server determines if a destination device may be operable to communicate information via a secure communication environment. For example, an initiating device may be operable to encrypt information based upon a particular algorithm. As such, the communication server may determine if a destination device may be operable to process the encrypted information communicated by the initiating device using the particular algorithm. In this manner, the same algorithm may be used to encrypt and decrypt information communicated between an initiating device and a destination device.

In one embodiment, the initiating device may be operable to encrypt and decrypt communicated information but a destination device may not be operable to encrypt and decrypt the communicated information. As such, the method may be operable to provide a secure communication environment between the initiation device and a communication server operable as an encryption server for encrypting and decrypting communicated information. Information may then be communicated by the initiating device, decrypted and/or encrypted by the encryption server, and communicated to the destination device. In this manner, a secure communication environment may be provided between the initiating device and communication server thereby providing a partially secure communication environment.

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Upon determining if a secure environment may be established, the method proceeds to step 204 where the server communicates an instruction identifying an algorithm to be used to provide a secure communication environment. For example, the communication server may provide a reference or instruction to the initiating device and the destination device identifying the type of algorithm or encryption to provide a secure communication environment. For example, the method may determine that a sixteen-bit, thirty-two bit, etc. encryption algorithm may be used to provide the secure communication environment. As such, the communication server would provide a reference or instruction to the initiating device and the destination device such that a secure communication environment may be established.

Upon providing a reference or instruction identifying an algorithm, the method proceeds to step 205 where communication may be enabled between the initiating device and the destination device using the identified algorithm. For example, information communicated from the initiating device may be encrypted using the identified algorithm. The encrypted information may then be communicated to the destination device using conventional communication mediums such as land-lines, cellular, wireless, or other mediums operable to communicate information to the destination device. The information may then be received by the destination device and decrypted as required. In this manner, a secure communication environment may be provided between the initiating device and the destination device ensuring the integrity of a secure communication.

[illegible][illegible]

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0	00000000	00000001	00000010	00000011	00000100	00000101	00000110	00000111	00001000	00001001	00001010	00001011	00001100	00001101	00001110	00001111	00010000	00010001	00010010	00010011	00010100	00010101	00010110	00010111	00011000	00011001	00011010	00011011	00011100	00011101	00011110	00011111	00100000	00100001	00100010	00100011	00100100	00100101	00100110	00100111	00101000	00101001	00101010	00101011	00101100	00101101	00101110	00101111	00110000	00110001	00110010	00110011	00110100	00110101	00110110	00110111	00111000	00111001	00111010	00111011	00111100	00111101	00111110	00111111	01000000	01000001	01000010	01000011	01000100	01000101	01000110	01000111	01001000	01001001	01001010	01001011	01001100	01001101	01001110	01001111	01010000	01010001	01010010	01010011	01010100	01010101	01010110	01010111	01011000	01011001	01011010	01011011	01011100	01011101	01011110	01011111	01100000	01100001	01100010	01100011	01100100	01100101	01100110	01100111	01101000	01101001	01101010	01101011	01101100	01101101	01101110	01101111	01110000	01110001	01110010	01110011	01110100	01110101	01110110	01110111	01111000	01111001	01111010	01111011	01111100	01111101	01111110	01111111	10000000	10000001	10000010	10000011	10000100	10000101	10000110	10000111	10001000	10001001	10001010	10001011	10001100	10001101	10001110	10001111	10010000	10010001	10010010	10010011	10010100	10010101	10010110	10010111	10011000	10011001	10011010	10011011	10011100	10011101	10011110	10011111	10100000	10100001	10100010	10100011	10100100	10100101	10100110	10100111	10101000	10101001	10101010	10101011	10101100	10101101	10101110	10101111	10110000	10110001	10110010	10110011	10110100	10110101	10110110	10110111	10111000	10111001	10111010	10111011	10111100	10111101	10111110	10111111	11000000	11000001	11000010	11000011	11000100	11000101	11000110	11000111	11001000	11001001	11001010	11001011	11001100	11001101	11001110	11001111	11010000	11010001	11010010	11010011	11010100	11010101	11010110	11010111	11011000	11011001	11011010	11011011	11011100	11011101	11011110	11011111	11100000	11100001	11100010	11100011	11100100	11100101	11100110	11100111	11101000	11101001	11101010	11101011	11101100	11101101	11101110	11101111	11110000	11110001	11110010	11110011	11110100	11110101	11110110	11110111	11111000	11111001	11111010	11111011	11111100	11111101	11111110	11111111

FIGURE 3 illustrates one embodiment of a communication device operable to securely communicate information according to teachings of the present invention. A communication device, illustrated generally at 300, includes a display 301, an keypad 302, a microphone 303, a speaker 304, and an antennae 305. Communication device 300 may be operable as a cordless telephone for communicating telephonic information to a communication device. Communication device 300 may include a communication module (not shown) operable to process and communicate information via a wireless medium. Such communication may include using Radio Frequencies (RF) at, for example, 900 MHZ deploying Spread Spectrum Communication of RF signals.

Communication device 300 may also be operable to deploy an algorithm stored within a storage medium (not shown) coupled to communication device 300. For example one or more 16-Bit encryption algorithms may be stored within the storage medium.

During use, a user may select one or more keys to initiate a secure communication environment. For example, a user may select '*33' to request a secure communication service from a service provider. As such, the communication server may provide communication device 300 with an instruction indicating which algorithm stored within the storage medium may be used to encrypt and decrypt communicated information. In this manner, communication device 300 may use different algorithms identified by a communication server to provide a secure communication environment.

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In one embodiment, communication device 300 may be operable to receive and download an algorithm for encrypting and decrypting communicated information. For example, communication device 300 may include memory for storing a downloaded algorithm communicated by a communication server operable for encrypting and decrypting information. As such, communication device 300 may be programmed by a communication server at different times to provide various secure communication environments.

As illustrated in FIGURE 3, communication device 300 may be operable as a cordless telephone. However, it should be understood that communication device 300 may include various devices such as a wireless communication device, a computer system, a telephone, a cordless telephone, a cellular telephone, a multifunctional machine, a fax machine, or other systems and devices operable to provide a secure communication environment via a server selected algorithm or encryption technique.

FIGURE 4 illustrates one embodiment of a method for securely communicating information using a communication device according to teachings of the present invention. The method may be deployed using the system illustrated in FIGURE 3 or other systems operable to deploy the method illustrated in FIGURE 4. As step 401, communication may be initiated by a communication device operable to communicate with a destination device via a network. For example, a user may initiate communication by picking up a receiver coupled to a telephone. The method then proceeds to step 402 where the communication device requests secure communication service from a

service provider. For example, a user may select a series of keys for a requested service. As such, the request may be received by a communication server operable to determine if a secure communication environment may be deployed.

The method then proceeds to step 403 where the communication device receives an instruction identifying an algorithm to be used for providing a secure communication environment. For example, the electronic device may include several algorithms stored within a memory associated with the electronic device. The communication server may then communicate an instruction identifying which algorithm to be used in association with providing a secure communication environment.

The method then proceeds to step 404 where the electronic device processes the information based upon the identified algorithm. For example, the electronic device may encrypt and/or decrypt information using a 32-bit encryption technique. Upon processing the information, the method proceed to step 405 where information may be communicated by the initiating device to the destination device via a secure communication environment. The method then proceeds to step 406 where the method ends.

FIGURE 5 illustrates one embodiment of a communication network operable to deploy a secure communication environment according to teachings of the present invention. A communication network, illustrated generally at 500, includes a communication server 501 coupled to a network 510 via communication medium 506 for establishing communication between one or more

communication devices. Communication server 501 may be operable to couple one or more devices such a computer system 502, telephone 505, a multifunctional machine 502, a cordless telephone 504, or other devices operable to be
5 connected to communication medium 506. In one embodiment, communication medium 506 may be operable to be connected to a premises network 512 which may be operable as a residential or business network.

Communication network 500 may also include several
10 devices operable to communicate with one or more communication devices via premises network 512. A plurality of devices may be located proximal or distal to communication server 501 and may include, for example, a wireless communication device 507, a second cordless
15 telephone 508, a second telephone 514, a second computer system 509 or other devices operable to communicate via communication network 500. For example, wireless communication device 507 may be configurable as a wireless personal digital assistant, a portable or laptop
20 computer, a two-way radio, or other wireless communication devices operable to communicate via communication network 500.

During use, communication may be initiated by a device operable to communicate using communication
25 network 500. For example, a user may initiate a phone call using cordless telephone 504. A secure communication environment may be initiated by the user selecting a key or a series of keys associated with cordless telephone 504. For example, a user may select a
30 series of "*33" on a handset associated with cordless telephone 504 to request a special service for initiating

a secure communication environment. As such,
communication server 501 may determine if a secure
communication environment may be provided and send an
instruction or signal to cordless telephone 504 in
5 response to determining if a secure communication
environment may be provided.

In one embodiment, cordless telephone 504 may be
operable to deploy one or more types of algorithms
operable to encrypt information communicated by cordless
10 telephone 504. As such, communication server 501 may
provide cordless telephone 504 an instruction identifying
an algorithm to be used during communication of
information. Cordless telephone 504 may then utilize the
selected algorithm to encrypt information prior to
15 communicating information to a destination device and
decrypt communicated information as required. In this
manner, a secure communication environment may be
provided for communicating information.

In another embodiment, a secure communication
20 environment may be provided between an initiating
communication device, such as telephone 505, and a
destination communication device such as wireless
communication device 507. A user may request a secure
communication environment by initiating a service request
25 with communication server 501. Communication server 501
may then determine an algorithm to be used by telephone
505 and wireless communication device 507. Communication
server 501 may then provide an instruction to telephone
505 and wireless communication device 507 identifying an
30 algorithm to be used to encrypt and decrypt information.

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5 In another embodiment, communication server 501 may be operable as an encryption server for encrypting and decrypting communicated information. For example, a secure communication environment may be established between an initiating device, such as first computer 502 and communication server 501. Additionally, a non-secure communication environment may be established between communication server 501 and a destination device such as second cordless telephone 508. As such, information may be encrypted by first computer system 502 and communicated via a secure communication environment to communication server 501. Communication server 501 operable as an encryption server, may then decrypt the information and communicate the information to second cordless telephone 508. In this manner, a partially secure communication environment may be provided by communication network 500 for communicating information.

20 As illustrated in FIGURE 5, a secure communication environment may be provided between a plurality of communication devices. For example, communication may be initiated by first computer system 502 and wireless communication device 507. First computer system 502 may be operable to allow a user to initiate a telephone call using a microphone and software operably associated with first computer system 502. As such, the user may initiate secure communication with wireless communication device 507 via communication server 501. The user may select a key, a series of keys, a graphical user interface icon, etc. to initiate a service request with communication server 501. Communication server 501 may then provide an instruction to first computer system 502

associated with an algorithm for encrypting and
decrypting information communicated during the telephone
call. As such, first computer system 502 may be operable
to encrypt and decrypt information communicated during a
5 telephone call between first computer system 502 and
wireless communication device 507.

In another embodiment, communication server 501 may
be operable to provide or download an algorithm to a
communication device prior to establishing a secure
10 communication environment. For example, communication
server 501 may download an algorithm to an initiating
device operable to receive and utilize an algorithm. As
such, an initiating device, such as wireless
communications device 507, may receive the algorithm
15 downloaded by communication server 501 and utilize the
algorithm to encrypt and decrypt information. As such, a
different secure communication environments may be
provided using various algorithms as determined by
communication server 501.

20 Although the present invention has been described
with several embodiments, a myriad of changes,
variations, alterations, transformations, and
modifications may be suggested to one skilled in the art,
and it is intended that the present invention encompass
25 such changes, variations, alterations, transformations,
and modifications as fall within the scope of the
appended claims.

WHAT IS CLAIMED IS:

1. A communication network operable to provide a secure communication environment comprising:

a communication device operable to request the secure communication environment;

a communication server operable to be coupled to the initiating device; and

the communication server operable to enable the secure communication environment.

2. The network of Claim 1 further comprising:

a destination device operable to communicate information via the secure communication environment; and

wherein the communication device comprises an initiating device operably coupled to the destination device.

3. The network of Claim 1 wherein the server further comprises a database having at least one reference identifying an algorithm.

4. The network of Claim 1 wherein the communication device comprises a storage medium operable to store at least one algorithm to be used in association with the secure communication environment.

5. The network of Claim 1 wherein the communication server further comprises at least one algorithm operable to be communicated to the communication device.

6. The network of Claim 1 wherein the communication device comprises a telephone.

7. The network of Claim 1 wherein the communication device comprises a wireless communication device.

8. The network of Claim 1 wherein the communication device comprises a computer system.

9. The network of Claim 1 further comprising the communication server operable to communicate information via the secure communication environment.

10. The network of Claim 2 further comprising the server operable to determine if the initiating device and the destination device are operable to communicate via the secure communication environment.

11. The network of Claim 2 wherein the communication server further comprises at least one algorithm operable to be communication to the destination device.

12. The network of Claim 2 wherein the initiating device is operable to communicate via the secure communication environment and the destination device is operable to communicate via a non-secure communication environment.

14. A method for providing a secure communication environment comprising:

determining availability of the secure communication environment in response to a request by a communication device; and

providing a reference to the communication device operable to be used in association with enabling the secure communication environment.

15. The method of Claim 14 further comprising:
identifying an algorithm operably associated with an initiating device and a destination device; and
providing the reference associated with the algorithm to enable to secure communication environment by the initiating device and the destination device.

16. The method of Claim 14 further comprising communicating an algorithm associated with the reference to a communication device operable to deploy the algorithm to provide the secure communication environment.

17. The method of Claim 14 further comprising enabling the secure communication environment between the communication device and a communication server using an algorithm.

18. The method of Claim 14 further comprising enabling the secure communication environment between an initiating using an algorithm.

19. The method of Claim 14 further comprising processing information via a communication server using an algorithm.

5 20. The method of Claim 14 further comprising communicating information via a non-secure communication environment.

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21. A communication device operable to communicate via a communication network comprising:

a user interface operable to initiate communication with a communication server coupled to the communication network; and

a processor operable to process information based upon an algorithm identified by the communication server.

22. The communication device of Claim 21 further comprising the algorithm stored within a storage medium.

23. The communication device of Claim 21 wherein the processor may be operable to deploy the algorithm to provide the secure communication environment.

24. The communication device of Claim 21 wherein the processor may be operable to communicate with a destination device operable to process information in association with the algorithm.

25. The communication device of Claim 22 wherein the storage medium is operable to store an algorithm communicated by the communication server.

26. The communication device of Claim 21 further comprising a computer system.

27. The communication device of Claim 21 further comprising a telephone.

28. The communication device of Claim 21 further comprising a wireless communication device.

5 29. The communication device of Claim 28 comprises a cordless telephone.

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30. A method for providing a secure communication environment using a communication device comprising:
initiating communication with a communication server to request a secure communication environment; and
5 processing information based upon an algorithm identified by the communication server to provide the secure communication environment.

10 31. The method of Claim 30 further comprising requesting service from the communication server.

15 32. The method of Claim 30 further comprising receiving an instruction from the server identifying the algorithm.

33. The method of Claim 30 further comprising identifying a destination device operable to be coupled to the communication device.

20 34. The method of Claim 33 further comprising processing information received by the destination device based upon the algorithm.

25 35. The method of Claim 30 further comprising deploying the algorithm in association with a telephone.

30 36. The method of Claim 30 further comprising deploying the algorithm in association with a computer system.

38. A system for providing a secure communication environment using a communication device comprising:

means for initiating communication with a communication server; and

5 means for processing information by the initiating device based upon an algorithm identified by the communication server.

10 39. The system of Claim 38 further comprising means for identifying a destination device operable to be coupled to the communication device.

15 40. The system of Claim 38 further comprising means for processing information based upon an algorithm operable to be used by the initiating device and the destination device.

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a destination device operable to communicate information via the secure communication environment; and

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METHOD, DEVICE, AND NETWORK FOR PROVIDING SECURE
COMMUNICATION ENVIRONMENTS

ABSTRACT OF THE DISCLOSURE

The present invention is directed towards a method, device, and network for providing secure communication environments. In one form, a communication network operable to provide a secure communication environment is disclosed. The communication network includes a communication device operable to request the secure communication environment. The communication network further includes a communication server operable to be coupled to the communication device to enable the secure communication environment.

FIG. 1

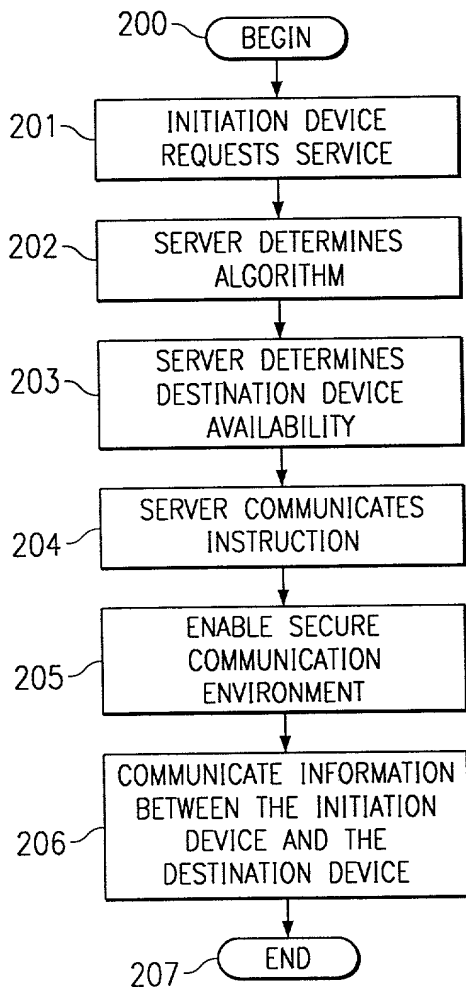
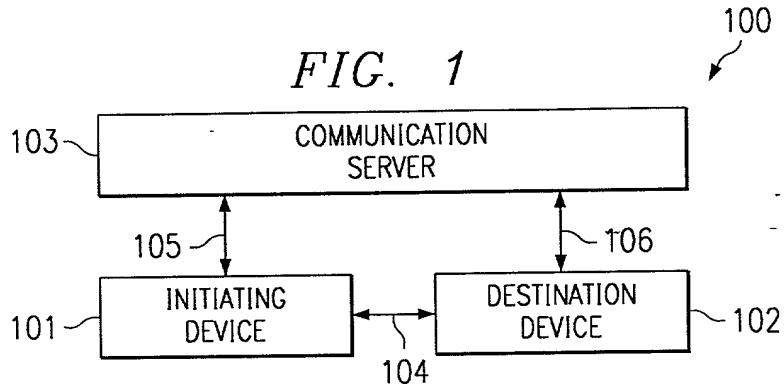


FIG. 2

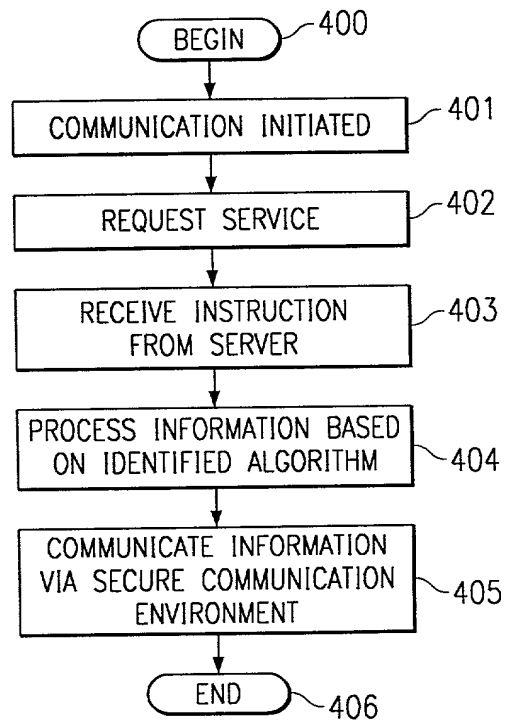
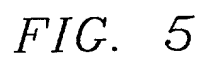
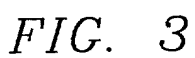


FIG. 4



DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; that I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention or design entitled METHOD, DEVICE, AND NETWORK FOR PROVIDING SECURE COMMUNICATION ENVIRONMENTS the specification of which is attached hereto; that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; and that I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>Number</u>	<u>Country</u>	<u>Date</u> <u>Filed</u>	<u>Priority</u> <u>Claimed</u> <u>(Yes) (No)</u>
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-----NONE-----

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the

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062891.0433

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subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

<u>Application</u> <u>Serial Number</u>	<u>Date Filed</u>	<u>Status</u>
None.		

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all of the firm of Baker Botts L.L.P., my attorneys/agents with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, and to file and prosecute any international patent applications filed thereon.

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I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such

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John Elmore Schier

50th E Schier

September 7, 2000

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